

gaattcatctgtcgactgtaccacggagttccccggagaaggatcctgcaggccagg 60
 cccgaggataaaggcttgggttcatcccttcggatcactccacagtccctcaggct 120
 tcccaatccaggggactcggcgccggacgctgtATGGACGACATTCACTCAGTGC 180
 M D I F T Q C 8
 R E G N A V R L W D N T E N D L N 28
 CAGGGGACGATCATGGCTTCTCCCCCTTGCACTGGGCCCTGCCGAGAGGGCCCTCTGCT 240
 Q G D D H G F S P L H W A C R E G R S A 48
 GtGGTTGAGATGTGATCATGGGGGGCACGGATCAAATGTAATGAAACCGTGGGGATGAC 360
 V V E M L I M R G A R I N V M N R G D D 68
 ACCCCCTGCATCTGGCAGCCAGTCATGGACACCCGTGATATTGTACAGAACGCTATTGCAG 420
 T P L H L A S H G H R D I V Q K L L Q 88
 TACAAGGGCAGACATCAAATGCAGTGAATGAAACACGGGAATGTGCCACTATGCCCTGT 480
 Y K A D I N A V N E H G N V P L H Y A C 108
 TTTTGGGGCCAAGATCAAAGTGGCAGAGGACCTGGTGGCAAATGGGGCCCTGTCAGCATC 540
 F W G Q D Q V A E D L V A N G A L V S I 128
 TGTAAACAAGTATGGAGAGATGCCTGTGGACAAAGCCAAGGCACCCCTGAGAGGCTCTC 600

Fig. 1a (continued on page 2/23)

GAGGACATGACTGCCGAATTAGCATGGCTGATGTCAAGTTCTTCCAAATGTCCTCGGT 1200
E D M T A R I S M A D V K F S F Q C P G 348
CGCATGATGCACCTGGCTAGCCCCGAAAGCTCTGCAGAAGAACCTGAAAGACACA 1260
R M Y A P A W V A P E A L Q K P E D T 368
AACAGACGGCTCAGCAGACATGTGGAGTTGCAGTGCCTCTGTGGAAACTGGTGACACGG 1320
N R R S A D M W S F A V L L W E L V T R 388
GAGGTACCCCTTGTGACCTCTCCAATATGGAGATTGGAATGAAGGTGGCATTGGAAGGC 1380
E V P F A D L S N M E I G M K V A L E G 408
CTTCGGCCTACCATCCCCACCAAGGTATTCCCCTCATGTGTGAAGCTCATGAAGATCTGC 1440
L R P T I P P G I S P H V C K L M K I C 428
ATGAATGAAGACCCCTGCAAAGGGACCCAAATTGACATGATTGTGCCTATCCTTGAGAAG 1500
M N E D P A K R P K F D M I V P I L E K 448
ATGCAGGACAAAGTAGGACTGGAAGGTCCCTGAGGTGAACCTGGGACATGGT 1560
M Q D K *
tggggaaatgcacccaaaggcaggcactgtttggctcccccccgccatccagtcat 1620
ggtactaccccaaggcctgggtccatccccccatccctaccactgtgcgcaagg 1680
ggcgggctcagagcttgtcactgccacatgggtctcccaacatggggatcagcc 1740
ccgcctgtcacaataaaggatttatgaaaaaaa 1789

Csk	I	NMRELKLLQ TIGKGEFGDV	MLGDDYRGN . K	VAVKC1KND	. TAQ . . . AF
Yes	II	IPRESLRLEV KLGQQGCFGEV	WMGTWNNGT	VAIKTLKPGT	MMPEAFLQ .
Ctrl	III	IPWCDLN1KE KIGAGSFGTV	HRAEWHGGS . D	VAVKILMEQD	FHAE . RVNEF
B-ratf	IV	IPDGQITVGQ RIGSGSFGT	YKGKWHG . D	VAVKMLNVTA	PTPQQ . LQAF
Ilk	V	IDFKQLNFLT KLNENHSGEL	WKGRWQGN . D	IVVKVLDKVR	DWSTRKS RD
					235
Csk	III	LAEASVMTQ LRHSNLVQLL	GVIVEE . KGG	LYIVTEYMAK	GSLVDYLRSR
Yes	IV	. EAQIMKK LRHDKLVPLY	AVVSEE . . P	LYIVTEFMTK	GSLLDFLKEG
Ctrl	V	LREVAIMKR LRHPNIVLFM	CAVTQPP . . N	LSIVTEYLSR	GSLYRILLHKS
B-ratf	VIa	KNEVGVLRK TRHVNILLFM	GYSTKE . . Q	LAIVTQWCEG	SSLYHHHLHII
Ilk	VIB	NEECPRLRI FSHPNVLPVL	GACQSPPAPM	PTLITHWMPY	GSLYNVLE
					283
Csk	VIIa	GRSV . LGGDC LLKFSLDVCE	AMEYLEGN . .	NFVHRLAA	RNVLV S . E
Yes	VIB	EGKF . LKLPQ LVTDMAAQIAD	GMAXIERN . .	NYTHRDLLA	ANILVG . D
Ctrl	VIIb	GAREQLDERR RLSMAYDVAK	GMNYLH . NRN	PPIVHRLDKS	PNLLV . DK
B-ratf	VIIc	ETKFEML . . K LIDIARQTAQ	GMDYLHAK . .	SIIHRLDKS	NNIFLH . E
Ilk	VIId	GTNFVVDQSQ AVKFAIDMAR	GMAFLR . TLE	PLIPRHALNS	RSVMI . DE

Csk	DNVAKVSDFG	LTK. . . . EA	SSTQDTGKLP	VKWTAAPEALR	. . . EKKFSTK	VIII
Yes	NLVCKIADFG	LARLIED. NE	YTARQGAKFP	IKWTAAPEAL	. . . YGRFTIK	
Ctrl	KYTUVKVCDFG	LSRLKAS. TF	LSSKSAAGTP	EWMAPEVLR	. . . DEPSNEK	
B-r a f	DLTVKIGDFG	LATVKSROWSG	SHQFEQLSGS	ILWMAPEVIR	MQDKNPYSFQ	
Tlk	DMTARIS. . .	MADVKEFSFQC	PGRM. YA. . P	AWVAPEALQ	KKPEDTNRSS	372
		X				
Csk	SDVWSFGILL	WEIYSFGRVP	YPRIPLKD. V	VPRVEKGY. . .	KMDAPDGCP	
Yes	SDVWSFGILL	TELVTKGRVP	YPGMVNRE. V	LEQVERGY. . .	RMPCPQGCPE	
Ctrl	SDVY SFGVIL	WELAT. LQQP	WGNL. NPAQV	VAAVGFKCK.	ROLEIPRNLN	
B-r a f	SDVYAFGIVL	YELMT. GQLP	YSNINNRDQI	IFMVGRGYLES	PDLSKVRSNC	
Tlk	ADMWSFAVLL	WELVTR. EVP	FADLSNMEIG	MK. VALEGGL.	R. TIPPGIS	418
		XI				
Csk	AVYEVMKN	CWHLDAAMRP	SFLQLREQLE	HIKTHEL		
Yes	SLHELMKL	CWKKDPPDERP	TPEYIQSFILE		
Ctrl	QVAATIEG	CWTNEPWKRKP	SPATIMDLR	PL. . . .		
B-r a f	PKAMKRLMAECLKKRDERP	LFPPQILASIE	LLARS LP			
Tlk	HVCKLMIKII	CMNEDPAKRP	KFDMIVPILE	KMQDK. . .		451

ANKYRIN
CONSENSUS

-G-TPLH-AA--GH---V---LL--GA--N----
A D

3.3 HGFSPPLHWACREGRSAVVEMLIMRGARINVMMNR
GDDTPPLHLAAASHGHRDIVQKLLQYKADINAVNE
HGNVPLHYACFWGQDQVAEDLVALVSICNK
YGEMPVDKAKAPLRELLRERAEEKMGQNLNRIPY 164

ANK1
ANK2
ANK3
ANK4

Fig. 1c

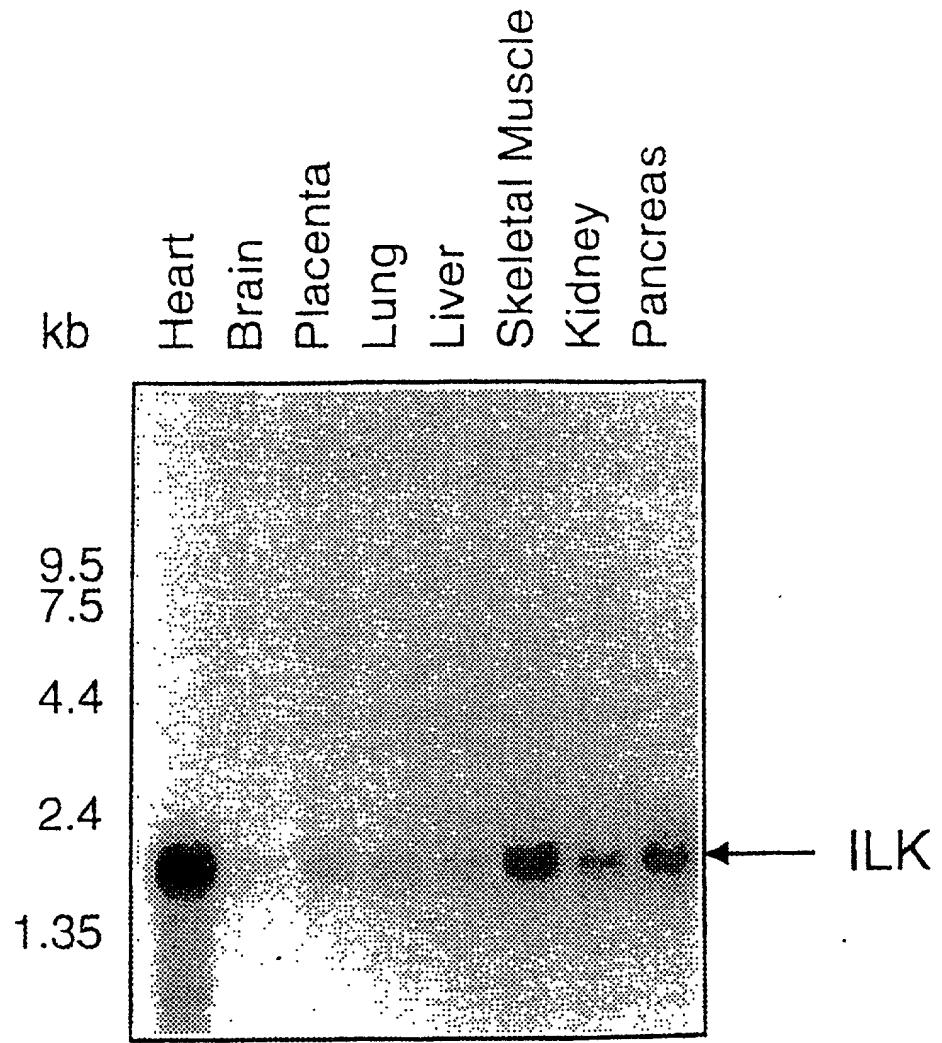


Fig. 1d

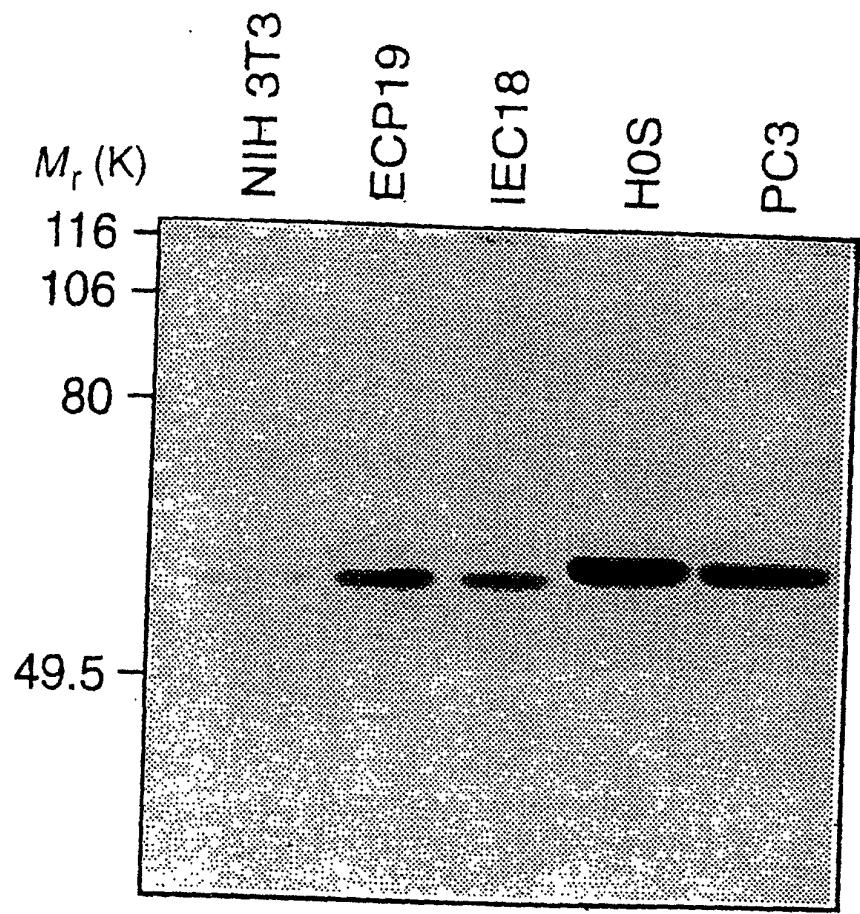


Fig. 1e

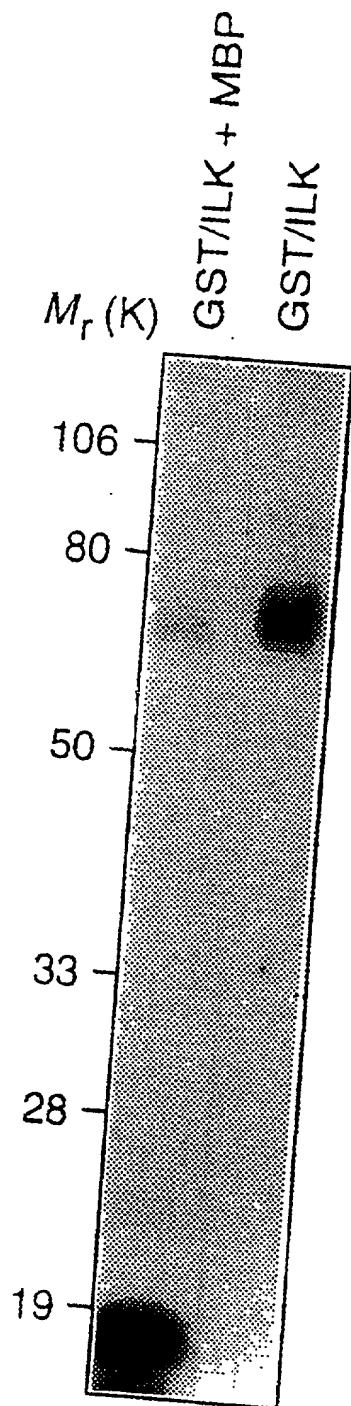


Fig. 2a

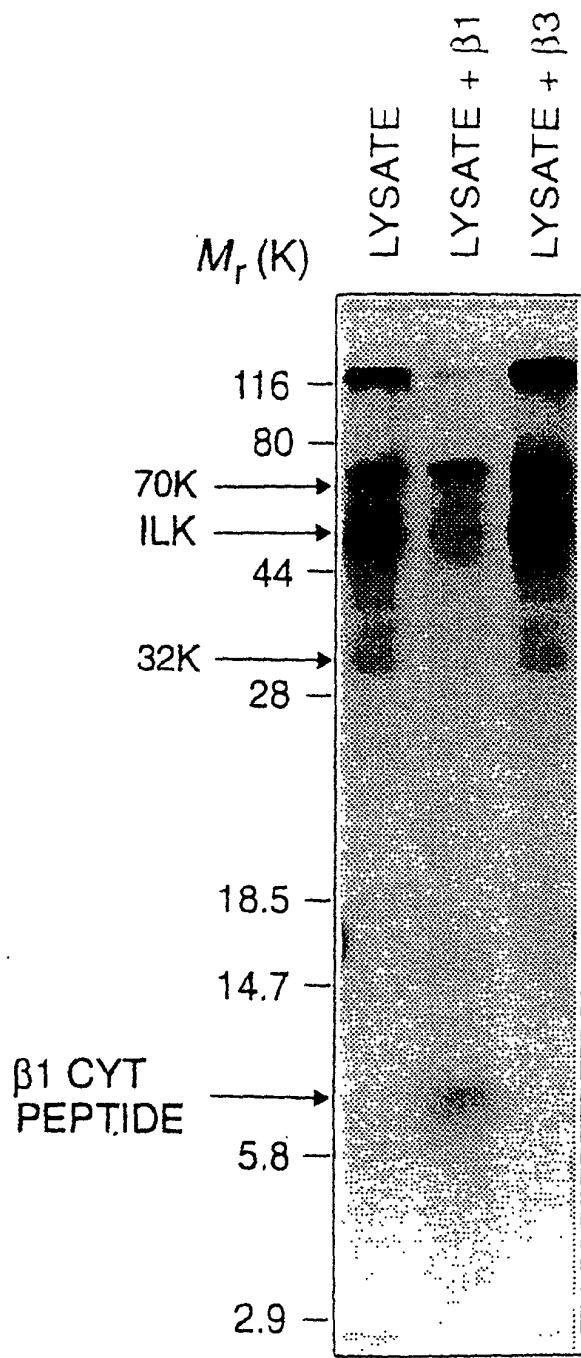


Fig. 2b

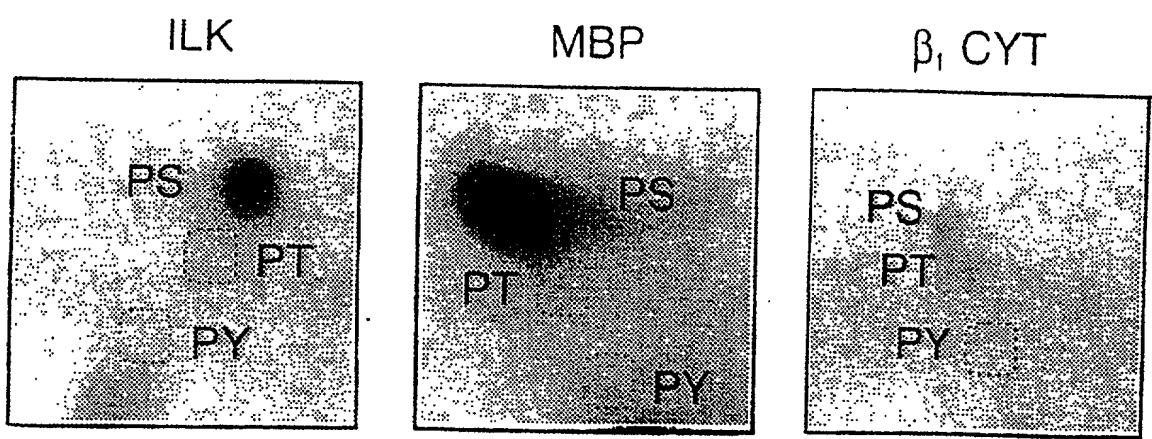


Fig. 2c

bio 6000 bio 6000 bio 6000 bio 6000 bio 6000 bio 6000

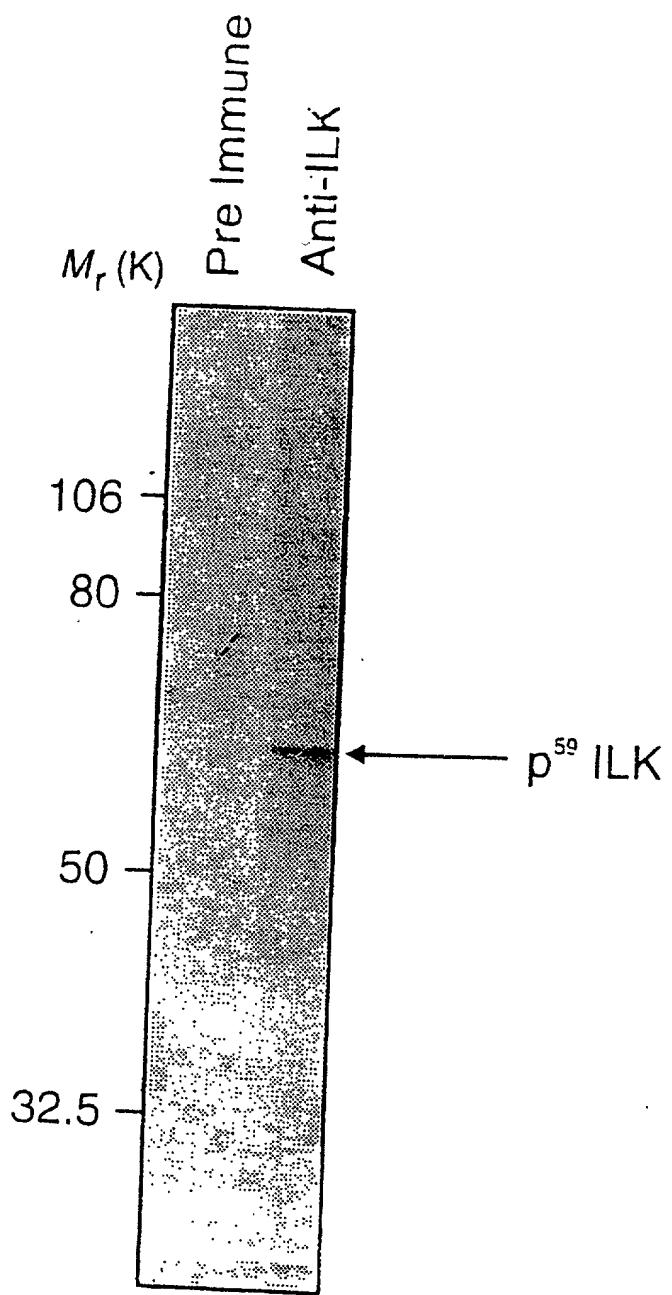


Fig. 3a

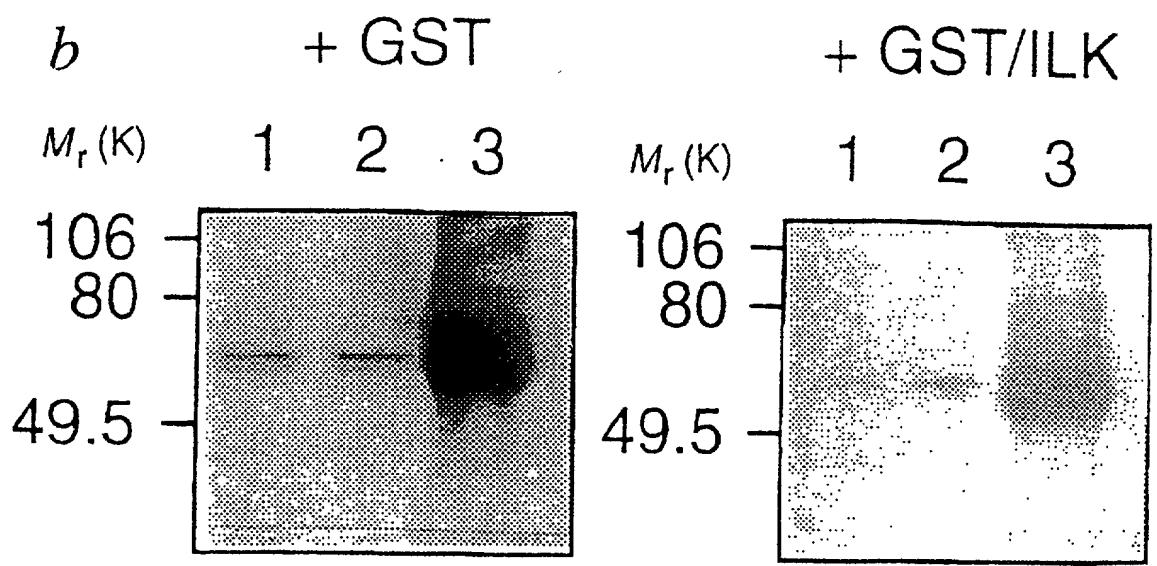


Fig. 3b

91-3
Anti VNR
Anti FNR

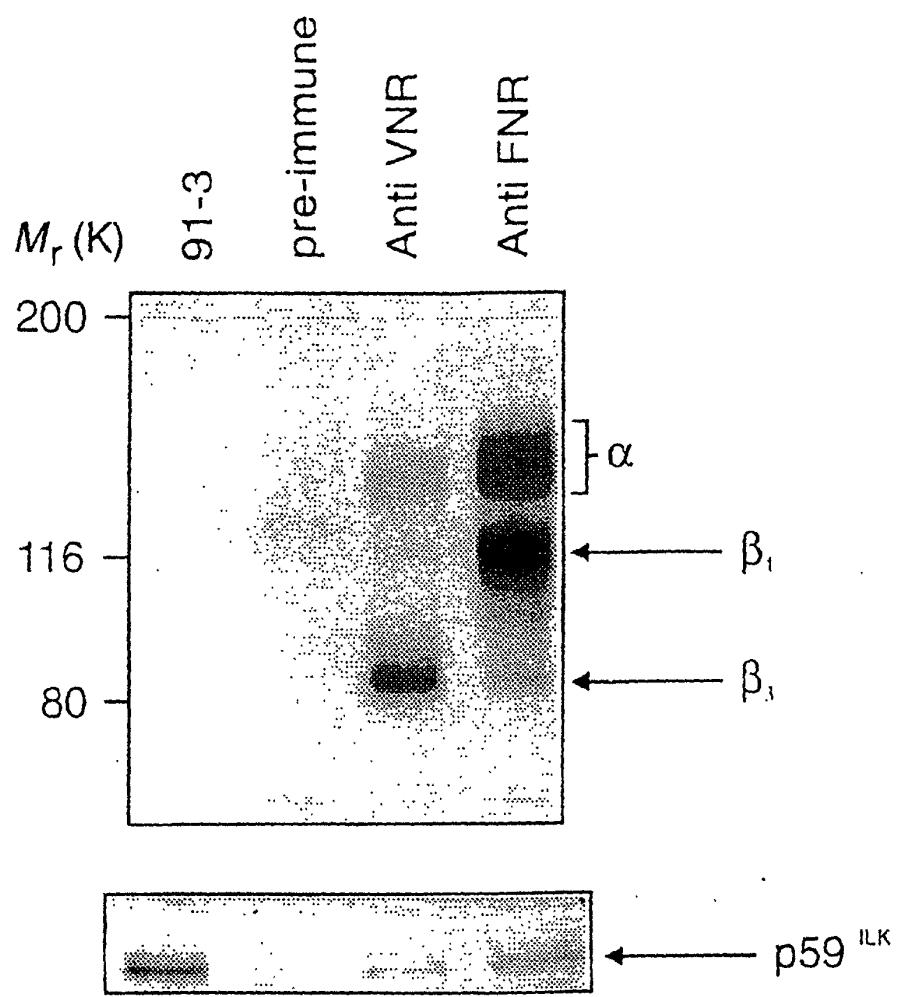


Fig. 3c

Immunoprecipitation: anti $\beta 1$ monoclonal antibodies
Immunoblot: anti-ILK adsorbed anti-ILK

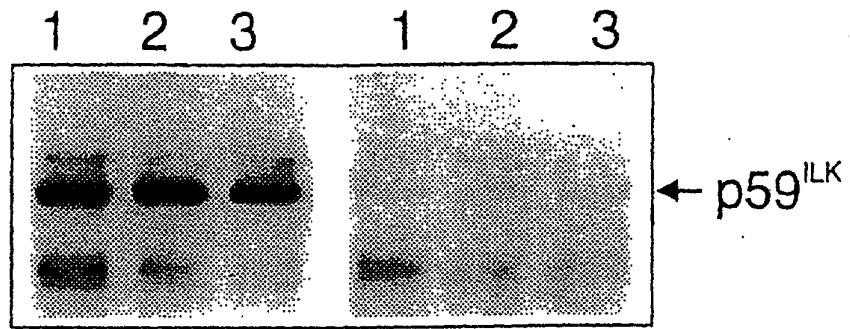


Fig. 3d

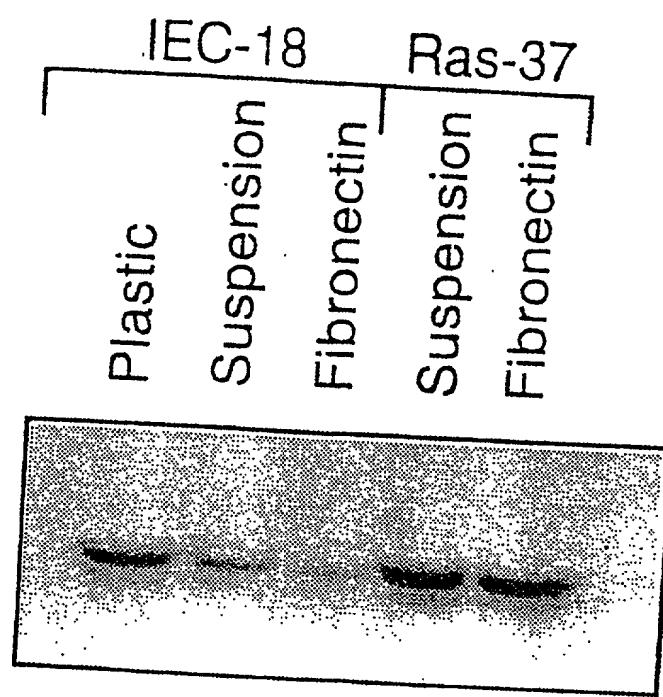


Fig. 4a

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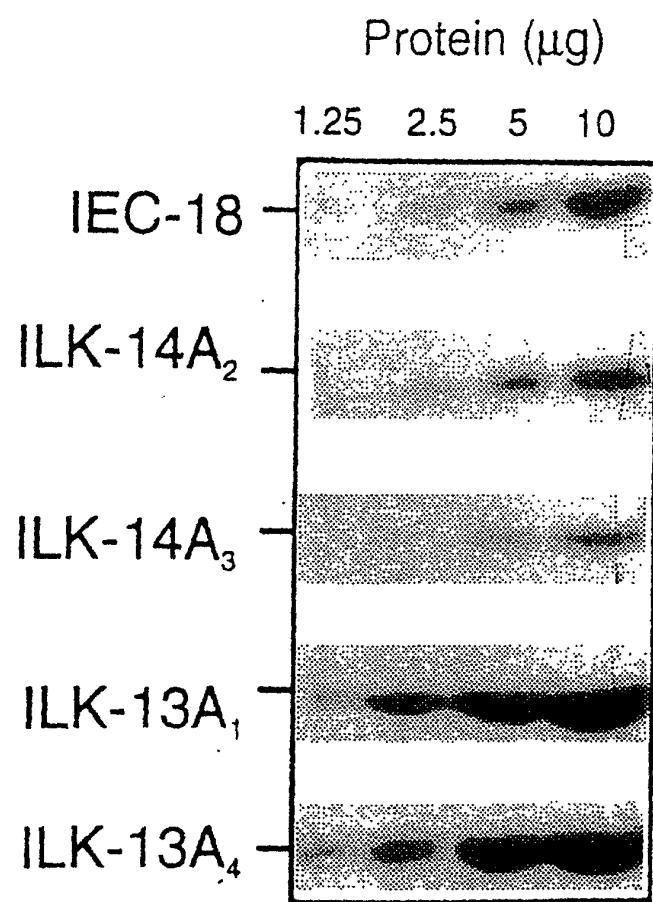


Fig. 4b

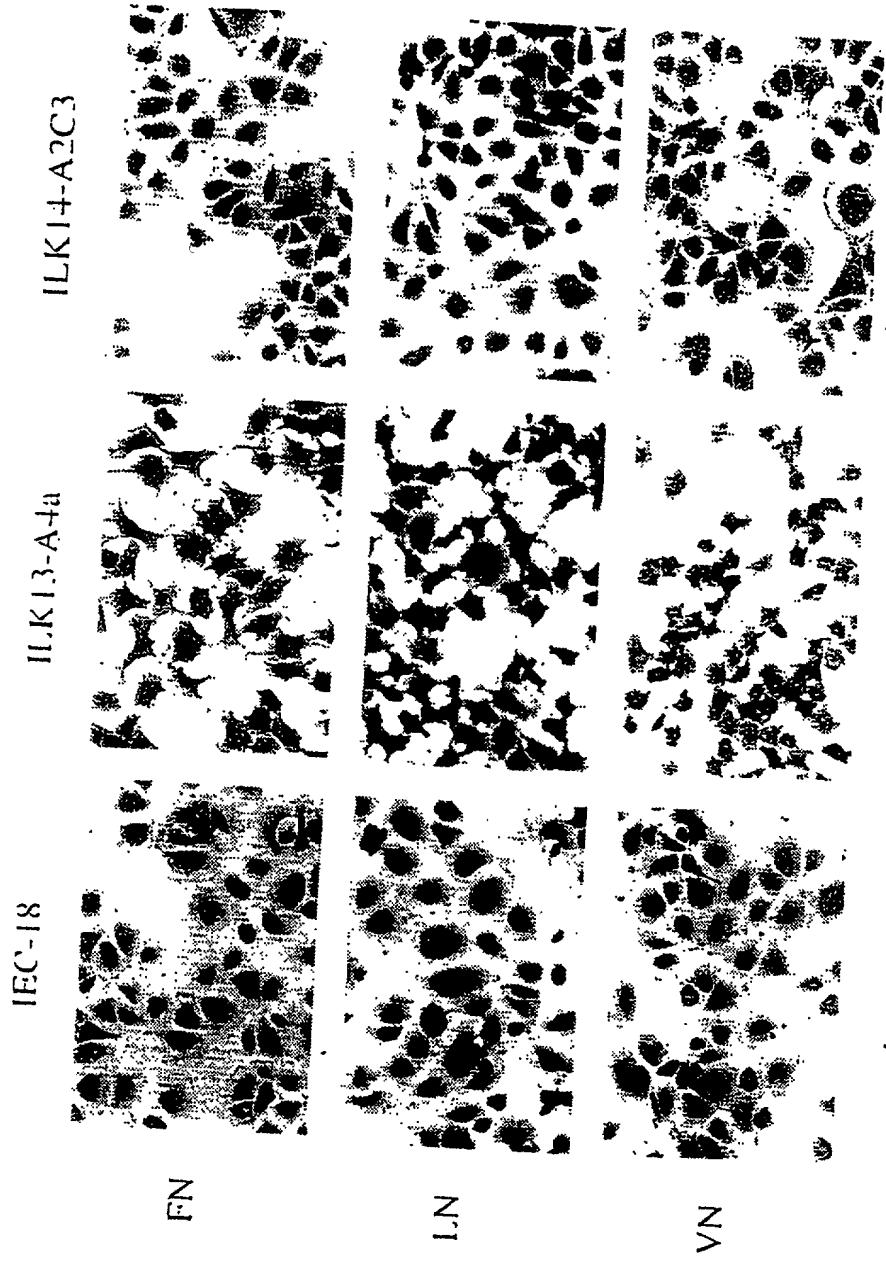


Fig. 4c

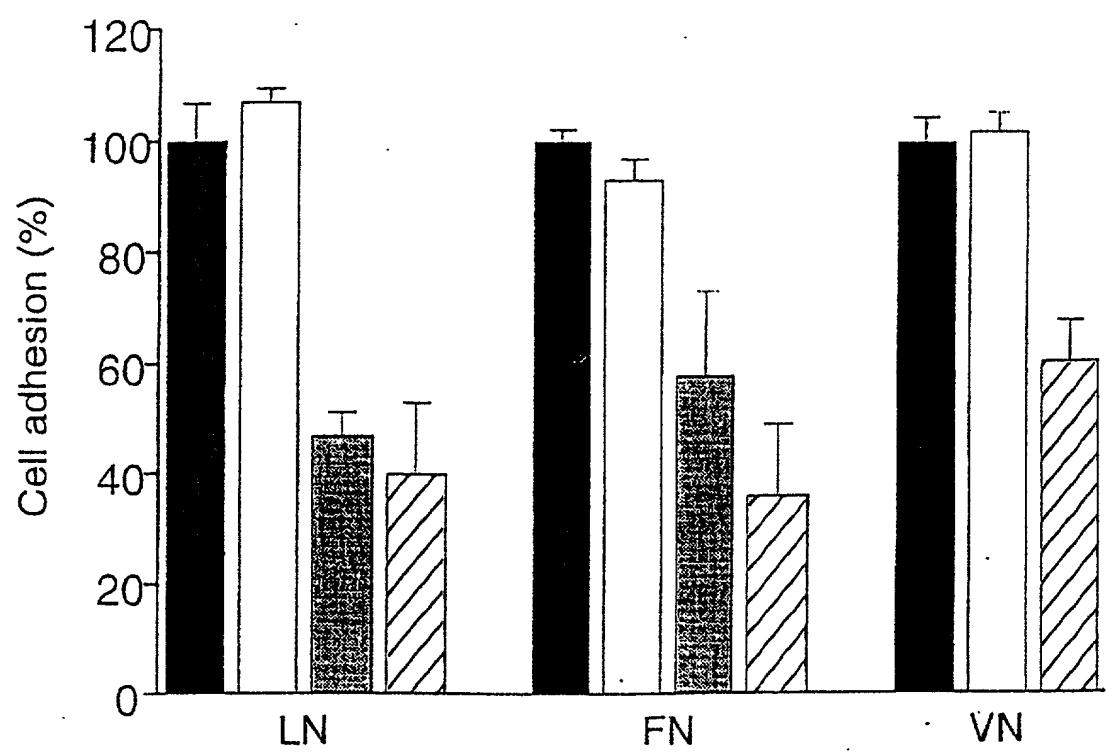


Fig. 4d

Experiment 1

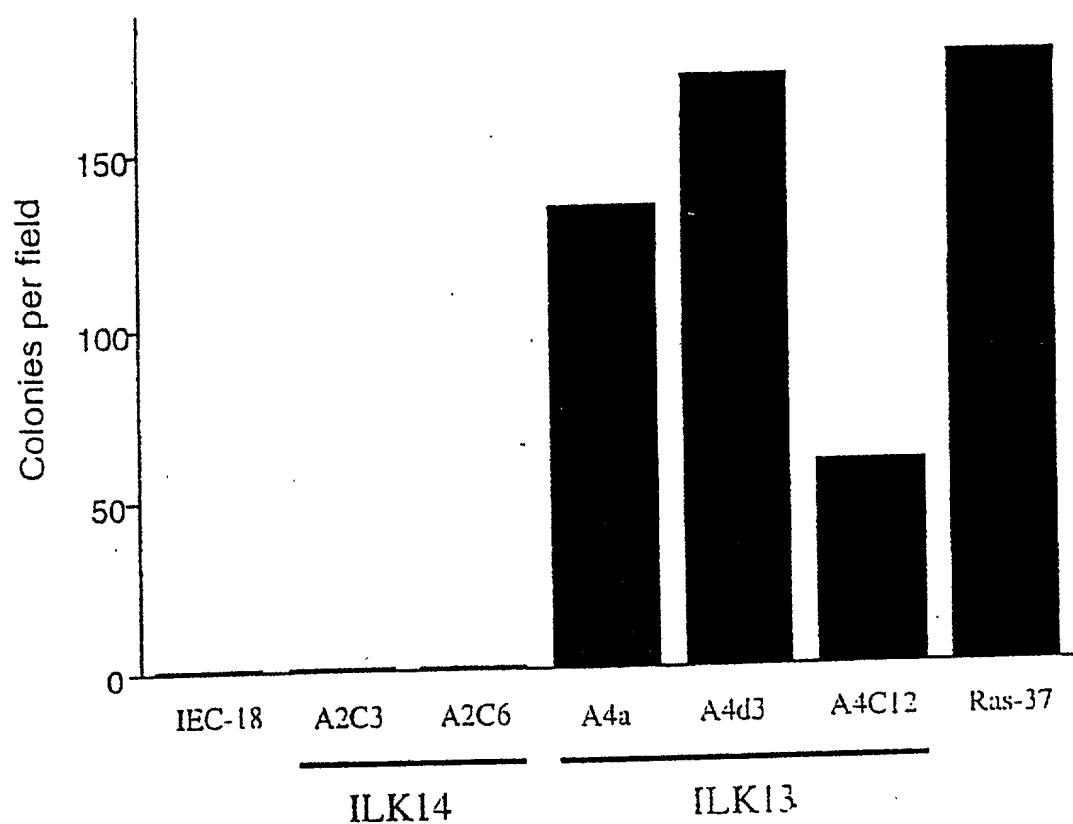


Fig. 4e (continued on page 21/23)

Experiment 2

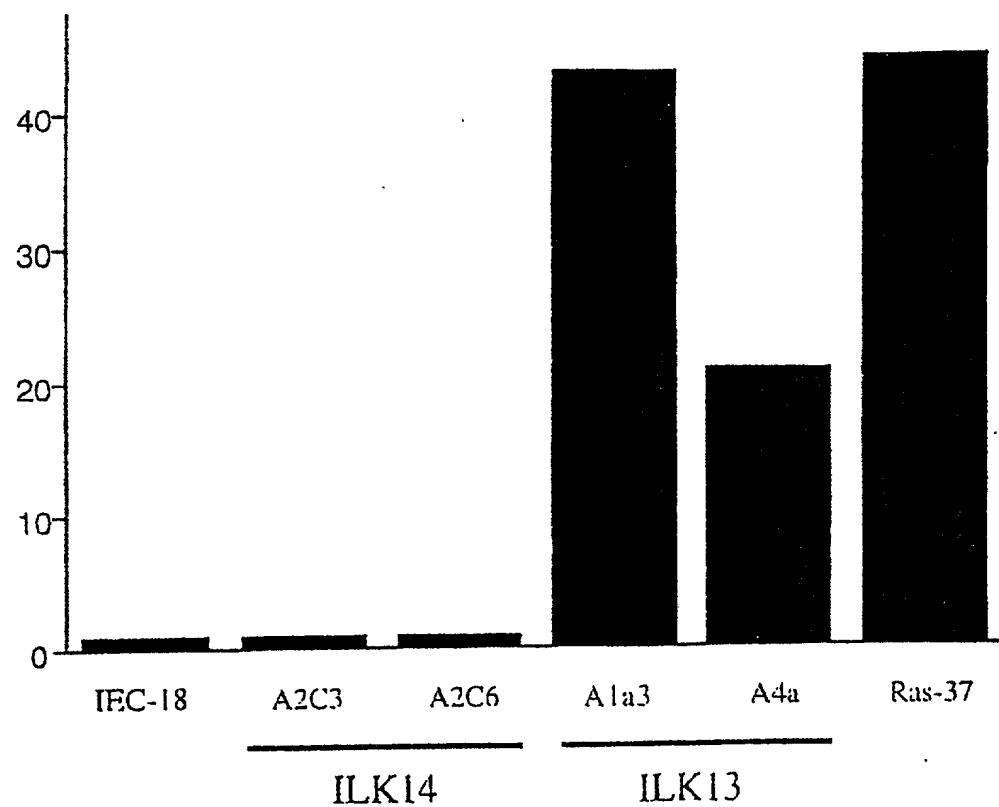


Fig. 4e

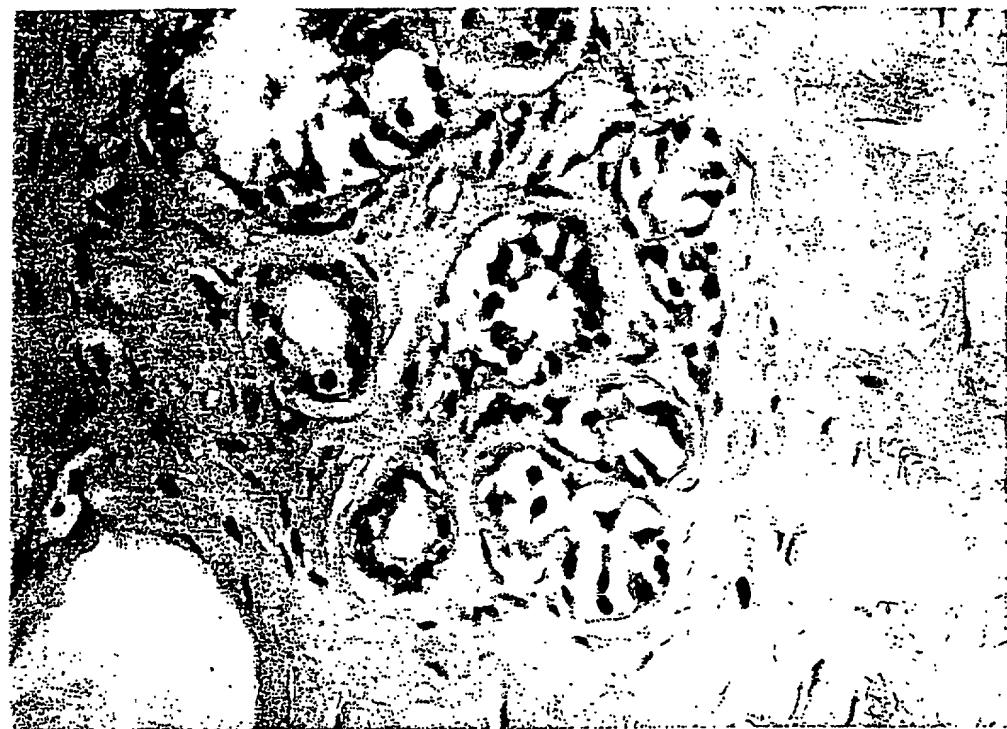


Fig. 5a



Fig. 5b



Fig. 5c

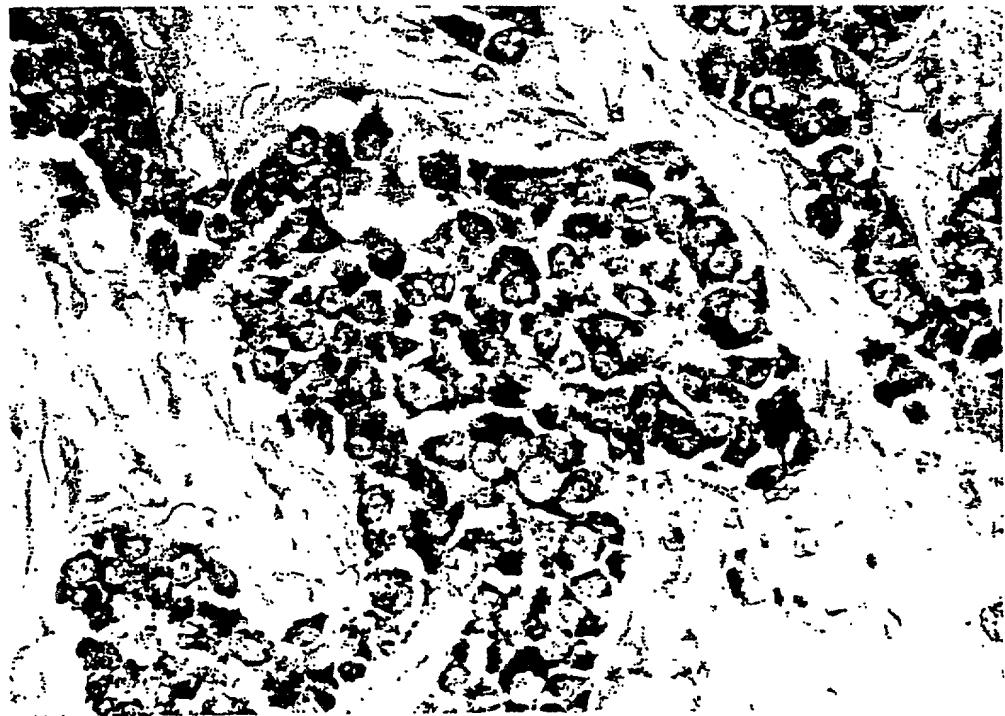


Fig. 5d